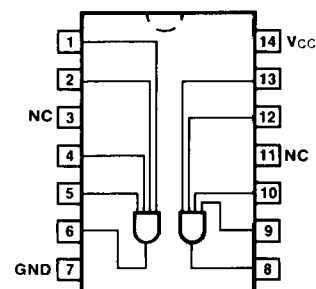


✓ 54/7421 011023  
 ✓ 54H/74H21 011026  
 ✓ 54LS/74LS21 011025  
 DUAL 4-INPUT POSITIVE AND GATE

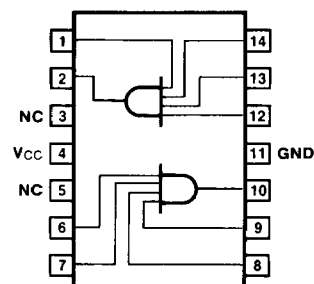
# CONNECTION DIAGRAMS PINOUT A



**ORDERING CODE:** See Section 9

PKGS	PIN OUT	COMMERCIAL GRADE	MILITARY GRADE	PKG TYPE
		$V_{CC} = +5.0\text{ V} \pm 5\%$ , $T_A = 0^\circ\text{C to } +70^\circ\text{C}$	$V_{CC} = +5.0\text{ V} \pm 10\%$ , $T_A = -55^\circ\text{C to } +125^\circ\text{C}$	
Plastic DIP (P)	A	7421PC, 74H21PC 74LS21PC		9A
Ceramic DIP (D)	A	7421DC, 74H21DC 74LS21DC	5421DM, 54H21DM 54LS21DM	6A
Flatpak (F)	A	7421FC, 74LS21FC	5421FM, 54LS21FM	3I
	B	74H21FC	54H21FM	

# PINOUT B



**INPUT LOADING/FAN-OUT:** See Section 3 for U.L. definitions

PINS	54/74 (U.L.) HIGH/LOW	54/74H (U.L.) HIGH/LOW	54/74LS (U.L.) HIGH/LOW
Inputs	1.0/1.0	1.25/1.25	0.5/0.25
Outputs	20/10	12.5/12.5	10/5.0 (2.5)

**DC AND AC CHARACTERISTICS:** See Section 3\*

SYMBOL	PARAMETER	54/74		54/74H		54/74LS		UNITS	CONDITIONS	
		Min	Max	Min	Max	Min	Max			
ICCH	Power Supply Current	10		20		2.4		mA	VIN = Open	VCC = Max
ICCL		16		32		4.4			VIN = Gnd	
tPLH	Propagation Delay	27		12		15		ns	Figs. 3-1, 3-5	
tPHL		19		12		15				

\*DC limits apply over operating temperature range; AC limits apply at  $T_A = +25^\circ\text{C}$  and  $V_{CC} = +5.0\text{ V}$ .